

Material Safety Data Sheet

(Reproduce locally)

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072



OSHA 174 Sept. 1985

Form Approved OMB No. 1218-0072 IDENTITY (as Used on Label and List) Note: Blank spaces are not permitted. If any item is not Low Grade Zinc Concentrate applicable or no information is available, the space must be marked to indicate that. Section I Manufacturer's name
Paradigm Minerals & Environmental Services rgency Telephone Number 949,939,5543 Address (Number, Street, City, State and ZIP Code) 3/54 Chemetco Lane 949.872.2160 Date Prepared Uary 23, 2014 Hartford, IL 62048 Signature of Preparer (optional) Section II—Hazardous Ingredients/Identity Information Other Limits **OSHA PEL** Hazardous Components (Specific Chemical Identity, Common Name(s)) **ACGIH TLV** Recommended % (optional) Material is considered non-hazardous Zinc 5.0 mg/m3 2.0 mg?m3 Copper .1 mg/m3 .2 mg/m3 Tin not established 2.0 mg/m3 Lead .05 mg/m3 .05 mg/m3 10.0 mg/m3 5.0 mg/m3 Iron Section III—Physical/Chemical Characteristics as a compound ranges from 3.97 - 4.01 **Boiling Point** 1200 F - 4000+ Specific Gravity (H₂0 = 1) varies by element, 600 to 2300 F Melting Point Vapor Pressure (mm Hg) mineral compound not applicable mineral compound Vapor Density (AIR = 1) mineral compound Evaporation Rate (Butyl Acetate = 1) not applicable not applicable Solubility in Water only slightly soluble in water at ambient temperatures Appearance and Odor - ranges in size from a small particles to aggregates of about 1.25" in size, sharp, coarse, angular material resulting from proces

Section in the reflection of the state of Flash Point (Method Used) Flammable Limits LEL UEL > 200 F Extinguishing Media Special Fire Fighting Procedures metal fires can generate hydrogen gas and compounds Unusual Fire and Explosion Hazards

Section V—Reactivity Data						
Stability		Unstable		Conditions to Avoid	·	
		Stable	material is stable			
Incompatibilit	y (Materials to Avoid)		<u> </u>			
Hazardous Decomposition or Byproducts						
Hazardous		May Occur	1	Conditions to Avoid	 	· · ·
Polymerizatio	n ·	Will Not Occur				
	11-10-11-11		1	<u> </u>		
	-Health Hazard Date	inhalation?	Oldes		lamantiano.	
Route(s) of E as a fine parti		yes	Skin? ves		Ingestion? yes	·
Health Hazards (Acute and Chronic) Eye: Minor irritation if exposed to dust. Skin: Dusts can contain skin irritants. Inhalation: Inhalation of dusts can have a cumulative effect on						
respiratory system, liver, and kidneys. Ingestion: Ingestion of dusts can have a cumulative effect on blood, neurological, and reproduction.						
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Carcinogenic	ity	NTP?	IARC Mo	onographs?	OSHA Regulated	i?
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Signs and Sy	mptoms of Exposure			· · · · · · · · · · · · · · · · · · ·		
-	<u> </u>		· · · · ·		· · · · · · · · · · · · · · · · · · ·	
Medical Conc	fitions		 			·
	gravated by Exposure	·				
	· · ·	ř				`.
Emergency and First Ald Procedures Eye: Flush with water. If irritation continues, seek medical attention. Skin: Wash skin with soap and wter. If irritation continues, seek medical						
attention. Inhalation: Move to fresh air. If irritation or breathing continues to be affected, seek medical attention. Ingestion: seek medical attention.						
Section VII—Precautions for Safe Handling and Use						
Steps to Be Taken in Case Material Is Released or Spilled Shovel or broom sweep into a container and dispose of according to local, state, and federal regulations.						
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Waste Dispos	sal Method				,	
Shovel or I	proom sweep into a cor	ntainer and dispose of acco	rding to local, state, a	nd federal regulations.	1	· · · · · ·
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Precautions to Be Taken In Handling and Storing No special handling or storage requirements. If exposure to dust occurs, please follow instructions from Section VI above.						
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Other Precau		sep damp. In the event of t	fire use motal fire are	ctions		
OUTION OUS	WILL LING OF MOTOR TO W	SOD GRITID: III IIIO OVEILLOI		cucos.		
Section VII	—Control Measures				-	· .
Respiratory Protection (Specify Type) No special protection required unless exposed to fine particulate dust, then use respirator.						
Ventilation	Local Exhaust	loss exposed to line partie.	ilate dust, their use re	Special		
	Mechanical (General)			Other		·
Protective Glo	oves		Eye Prof			, , , , , , , , , , , , , , , , , , ,
Yes Protective glases. Other Protective Clothing or Equipment						
Work/Hyglenic Practices Wash hands and clothing with soap and water. No eating, drinking, or smoking while handling products.						
Wash nanc	ts and clothing with soa	ap and water. No eating, di	rinkina, or smokina wł	nile handling products.		~.